

### Client level requirements

- REQ01 - The system shall be a desktop application.
- REQ02 - The system shall conduct all I/O via GUI (graphical user interface)
- REQ03 - The system shall display the connection status between software and controller (connecting, connected, not connected).
- REQ04 - The system shall read input data via serial communication from the controller.
- REQ05 - The system shall have the ability to record the configuration and fault data to a log file.
- REQ06 - The system and its environment shall be installed via a separate installer file.
- REQ06G - The system should not require admin rights to install, set up, or use.

### System Level Requirements

- REQ07 - The system shall be portable on devices running windows 10 or 11.
- REQ08G - The system should be portable on Red Hat and Debian Linux distributions.
- REQ09 - The system shall be able to determine which serial protocol is being used out of the following options rs485, rs422, rs232.

### Software Level Requirements

- Validate Client and System level requirements before writing software level requirements.